Package 'iris'

July 4, 2022

Version 0.1.0

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Title Reference Classes

Description Create reference classes, filler text.

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Imports methods

Encoding UTF-8

NeedsCompilation no

R topics documented:

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member   *Create a Member Definition for an Iris Class*

Description

Define a member for use within an iris class.

Usage

```
field(access = NA, static = FALSE, final = FALSE, className = "ANY",
    name, value, where = topenv(parent.frame()), ...)

method(access = NA, static = NA, final = FALSE, name, value,
    ...)

property(access = NA, static = NA, final = FALSE, name, value,
    ...)
```

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Arguments

access	`"public"`, `"private"`, or `"protected"`; the accessability of the field // method // property. See **Details**.
static	`TRUE`, `FALSE`, or `"static"`; is this field // method // property a class member or an instance member? See **Details**.
final	`TRUE`, `FALSE`, `"final"`, or `"const"`; is this field // method // property final? A final field is a field whose value cannot be changed once it's been initialized. A final method is a method whose definition cannot be re-defined in a sub-class.
className	the class of the field. This must be a formal class as defined by [setClass](#).
name	character string; the name of the field // method // property.
value	default value for the field or function definition of the method // property. Must be of the same class, or an appropriate sub-class, as `className`.
where	environment from which to begin the search for the `className` definition. This is not needed when `className` has a [packageSlot](#).
...	further arguments passed to or from other methods.

Details

The various tyoes of `access` are `"public"`, `"private"`, and `"protected"`.

Public access means that the member can be accessed from anywhere; within any method, within any function, within any package.

Private access means that the member can only be accessed by methods // properties of the corresponding iris class.

Protected access means that the member can only be accessed by methods // properties of the corresponding iris class and its' sub-classes.

By default, if `name` starts with a dot, the member has private access. Otherwise, it has public access.

Static and non-static members, also called class and instance members, control whether the member is defined within the class or within each instance of the class.

By default, fields are non-static. You must explicitly set `static = TRUE` or `static = "static"` for the field to be static. Methods // properties are non-static if their first argument is `.self`, `self`, or `this`, and static otherwise.

Value

An iris field, method, or property definition.

Properties

A property is usually used to avoid writing *getter and setter methods* for a field. Getting the property calls `value` with no arguments, and assigning calls `value` with one argument, the value to be assigned.

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